INCH-POUND

MIL-PRF-914A
AMENDMENT 3
15 December 2000
SUPERSEDING
AMENDMENT 2
11 August 2000

PERFORMANCE SPECIFICATION

RESISTORS NETWORKS, FIXED, FILM, SURFACE MOUNT,
NONESTABLISHED RELIABILITY, AND ESTABLISHED RELIABILITY,
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-PRF-914A, dated 3 July 1997, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

TABLE I, delete and substitute.

"TABLE I. Characteristics.

Test or condition	Characteristics						Units
	R	V	H	K	M	C 1/	
Resistance-temperature characteristic (see 3.13)	±25	±50	±50	±100	±300	±50	ppm/°C
Tracking to the reference element	±5	±5	2/	2/	2/	±5	
Maximum ambient temperature at rated wattage (see 3.6)	70	70	70	70	70	70	°C
Maximum ambient temperature at zero power derating (see figure 1)	125	125	125	125	125	125	
Thermal shock (see 3.8) and Power conditioning (see 3.9) ΔR ΔRatio	±.25 ±.03	±.25 ±.03	±.50 3/	±.70 3/	±.70 3/	±.25 ±.03	Maximum percent change in resistance (0.01 ohm additional allowed for measurement error). When applicable maximum percent change in resistance ratio.
Thermal shock (see 3.8) ΔR ΔRatio	±.15 ±.03	±.15 ±.03	±.25 3/	±.50 3/	±.50 3/	±.15 ±.03	
Low temperature operation (see 3.14) ΔR ΔRatio	±.10 ±.02	±.10 ±.02	±.10 3/	±.25 3/	±.50 3/	±.10 ±.02	
Short-time overload (see 3.15) ΔR ΔRatio	±.10 ±.02	±.10 ±.02	±.10 3/	±.25 3/	±.50 3/	±.10 ±.02	
Terminal strength (see 3.17) ΔR ΔRatio	±.10 ±.03	±.10 ±.03	±.25 3/	±.25 3/	±.25 3/	±.10 ±.03	

See footnotes at end of table.

TABLE I. Characteristics – Continued.

Test or condition		Characteristics						Units
		R	V	H	K	M	C 1/	
Resistance to bonding exposure (see 3.20)	ΔR ΔRatio	±.25 ±.02	±.25 ±.02	±.25 3/	±.25 3/	±.25 3/	±.25 ±.02	Maximum percent change in resistance (0.01 ohm additional allowed for measurement error). When applicable maximum percent change in resistance ratio.
Moisture resistance (see 3.21)	ΔR ΔRatio	±.20 ±.02	±.20 ±.02	±.40 3/	±.50 3/	±.50 3/	±.20 ±.02	
Shock, specified pulse (see 3.22)	ΔR ΔRatio	±.25 ±.03	±.25 ±.03	±.25 3/	±.25 3/	±.25 3/	±.25 ±.03	
Vibration, high frequency (see 3.23)	ΔR ΔRatio	±.25 ±.03	±.25 ±.03	±.25 3/	±.25 3/	±.25 3/	±.25 ±.03	
Life (see 3.24.1)	ΔR ΔRatio	±.50 ±.03	±.50 ±.03	±.50 3/	±.50 3/	±2.0 3/	±.50 ±.03	
FR level		±2.0	±2.0	±2.0	±2.0	±2.0	±2.0	
High temperature Exposure (see 3.25)	ΔR ΔRatio	±.10 ±.03	±.10 ±.03	±.20 3/	±.50 3/	±1.0 3/	±.10 ±.03	
Low temperature storage (see 3.26)	ΔR ΔRatio	±.10 ±.02	±.10 ±.02	±.10 3/	±.25 3/	±.50 3/	±.10 ±.02	
Steady-state humidity (see 3.28)	ΔR ΔRatio	±.20 ±.02	±.20 ±.02	±.40 3/	±.50 3/	±.50 3/	±.20 ±.02	
Insulation resistance (see 3.19)		10,000	10,000	10,000	10,000	10,000	10,000	Megohms
Resistance, tolerance and, when applicable, resistance ratio accuracy (see table VIII) 4/		B D F	B D F	B D F	D F G J	F G J	B D F	± percent

1/ Hermetically sealed resistor network (see 3.27).
2/ Not applicable.
3/ Delta ratio are not applicable.
4/ See 3.10.3.

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4.5h, delete “P” and substitute “M”.

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6.2c, delete and substitute.

"c. Packaging requirements (e.g., Electrostatic discharge (ESD) sensitivity) (see 5.1)."

After 6.4.2, add.

"6.4.3 Electrostatic charge. Under several combinations of conditions, these resistors can be electrically damaged, by electrostatic charges, and drift from specified value. Users should be consider this phenomena when ordering or shipping resistors. Direct shipment to the Government is controlled by MIL-DTL-39032 which specifies a preventive packaging procedure."

PAGE 42

A.3.1, delete "P" and substitute "M".

Custodians:
Army - CR
Navy - EC
Air Force - 11

Review activities:
Army - AR, AT, AV, CR4, MI
Navy - AS, CG, MC, OS
Air Force - 19
NASA - NA

Preparing activity:
Army - CR

Agent:
DLA - CC

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